Patent Claims

- Partition (1) for use in the production of one or more multilayers (2) or a multilayer pressed packet (3), wherein the partition (1) can be placed as a pressing sheet in the composite of a multilayer pressed packet (3) to be produced, especially between two multilayers (2), characterized in that the partition (1) is implemented as a steel sheet, but not as a high-grade steel sheet, that the steel sheet at a temperature of essentially 1800 C possesses a tensile strength of at least Rm τ 500 MPa and/or at a temperature of essentially 1800 C a yield strength of at least Rp_{0.2} τ 470 MPa.
- 2. Partition according to the preceding claim, **characterized in that** the steel sheet is essentially completely surface-treated.
- 3. Partition according to one of the preceding claims, characterized in that the steel sheet has a thickness of 0.3 to 0.5 mm.
- 4. Partition according to one of the preceding claims, **characterized in that** additionally the steel sheet has an organic, inorganic, or metallic coating (8).
- 5. Partition according to one of the preceding claims, characterized in that the metallic coating (8) is made of aluminum or copper.
- 6. Partition according to one of the preceding claims, **characterized in that** the organic coating (8) is applied as a lubricating agent.
- 7. Partition according to one of the preceding claims, **characterized in that** the lubricating agent is produced from an olefin base.
- 8. Partition according to one of the preceding claims, characterized in that the coating (8) has a thickness of at least 2 Πm.
- 9. Partition according to one of the preceding claims, **characterized in that** at least one surface of the steel sheet is covered with a copper foil (7).

- 10. Partition according to one of the preceding claims, characterized in that the steel sheet has a tensile strength of at least Rm τ 690 MPa and a yield point of at least Rp_{0.2} τ 630 MPa.
- 11. Partition according to one of the preceding claims, characterized in that the steel sheet (1) is comprised of an unalloyed carbon steel.
- 12. Partition according to claim 11, characterized in that the steel sheet is comprised of 0.03 to 1.2 % by weight C and 0.2 to 1.5 % by weight Mn portions.
- 13. Partition according to claim 12, characterized in that the steel sheet is comprised of 0.03 to 1.0 % by weight C and 0.2 to 0.5 % by weight Mn portions.
- 14. Partition according to one of claims 11 through 13, **characterized in that** the steel sheet contains slight traces of phosphorous, sulphur, aluminum, and/or silicon.
- 15. Partition according to one of claims 11 through 14, characterized in that the lubricating agent is a polymer with a polyolefin base.
 - 16. Partition according to one of claims 11 through 15, characterized in that the coating (8) is implemented as a thin layer chromium plating.
 - 17. Method for producing a partition (1) for a multilayer pressed packet (3), especially a partition (1) pursuant to one of the claims 1 through 10, wherein the partition (1) can be placed as a pressing sheet in the composite of a multilayer pressed packet (3) to be produced, especially between two multilayers (2), **characterized in that** the partition (1) is implemented as a steel sheet, but not as a high-grade steel sheet, that the steel sheet at a temperature of essentially 180θ C possesses a tensile strength of at least Rm τ 500 MPa and/or at a temperature of essentially 180θ C a yield point of at least Rp_{0.2} τ 470 MPa.
 - 18. Method according to one of the preceding claims, **characterized in that** the steel sheet is essentially completely surface-treated.
 - 19. Method according to one of claims 17 or 18, **characterized in that** the steel sheet is produced in a thickness of 0.3 to 0.5 mm.

- 20. Method according to one of claims 17 through 19, **characterized in that** the steel sheet is additionally provided with an organic, inorganic, or metallic coating (8).
- 21. Method according to one of claims 17 through 20, characterized in that the steel sheet is produced with a metallic coating (8) made of aluminum or copper.
- 22. Method according to one of claims 17 through 21, characterized in that a lubricating agent is applied as the organic coating (8).
- 23. Method according to one of claims 17 through 22, characterized in that the coating (8) is produced with a thickness of at least 2 Π m.
- 24. Method according to one of claims 17 through 23, characterized in that at least one surface of the steel sheet is covered with a copper foil (7).
- 25. Method according to one of claims 17 through 24, characterized in that the steel sheet is produced from such a material and treated such that the steel sheet that is produced has a tensile strength of at least Rm τ 690 MPa and a yield point of at least Rp_{0.2} τ 630 MPa.
- 26. Method according to one of the preceding claims, characterized in that the steel sheet (1) is produced from an unalloyed carbon steel.
- 27. Method according to claim 26, characterized in that the steel sheet contains 0.03 to 1.2 % by weight C and 0.2 to 1.5 % by weight Mn portions.
- 28. Method according to claim 27, **characterized in that** the steel sheet contains 0.03 to 0.1 % by weight C and 0.2 to 0.5 % by weight Mn portions.
- 29. Method according to one of claims 26 through 28, **characterized in that** the steel sheet contains slight traces of phosphorous, sulphur, aluminum, and/or silicon.
- 30. Method according to one of claims 26 through 29, **characterized in that** the lubricating agent is a polymer with a polyolefin base.

- 31. Method according to one of claims 26 through 30, characterized in that the coating (8) is implemented as a thin layer chromium plating.
- 32. Method for producing a multilayer pressed packet (3), wherein a partition (1) can be placed as a pressing sheet in the composite of a multilayer pressed packet (3) to be produced, especially between two multilayers (2), **characterized in that** a partition (1) in accordance with one of claims 1 through 16 and/or a partition (1) produced in accordance with claims 17 through 31 is used.
- 33. Multilayer pressed packet (3) for the production of one or more multilayers (2), characterized in that at least one partition (1) in accordance with one of claims 1 through 16 is inserted within the multilayer pressed packet (3).

List of Reference Numbers

1	Partition
la	Upper partition
1b	Lower partition
lc	Middle partition
2	Multilayer
3	Multilayer pressed packet
4	Pressing plate
5	Pressing tool
6	Pressing pad
7	Copper foil
8	Coating